

0590

1005

#2

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/892,949

DATE: 07/18/2001

TIME: 10:30:45

Input Set : A:\00-42.SEQ.txt

Output Set: N:\CRF3\07182001\I892949.raw

P.5

4 <110> APPLICANT: Sprecher, Cindy A.
5 Presnell, Scott R.
6 Gao, Zeren
7 Whitmore, Theodore E.
8 Kuijper, Joseph L.
9 Maurer, Mark F.
11 <120> TITLE OF INVENTION: CYTOKINE RECEPTOR ZCYTOR17
13 <130> FILE REFERENCE: 00-42
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/892,949
C--> 15 <141> CURRENT FILING DATE: 2001-06-26
15 <150> PRIOR APPLICATION NUMBER: US 60/214,282
16 <151> PRIOR FILING DATE: 2000-06-26
18 <150> PRIOR APPLICATION NUMBER: US 60/214,955
19 <151> PRIOR FILING DATE: 2000-06-29
21 <150> PRIOR APPLICATION NUMBER: US 60/267,963
22 <151> PRIOR FILING DATE: 2001-08-02
24 <160> NUMBER OF SEQ ID NOS: 93
26 <170> SOFTWARE: FastSEQ for Windows Version 3.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 2402
30 <212> TYPE: DNA
31 <213> ORGANISM: Homo sapiens
33 <220> FEATURE:
34 <221> NAME/KEY: CDS
35 <222> LOCATION: (171)...(2366)
37 <400> SEQUENCE: 1
38 ggcacgaggt gtgtgtgcag tatgaaaatt gagacaggaa ggcagagtgt cagcttggtc 60
39 cacctcagct gggaatgtgc atcaggcaac tcaagttttt caccacggca tgtgtctgtg 120
40 aatgtccgca aaacattctc tctccccagc cttcatgtgt taacctgggg atg atg 176
41 Met Met
42 1
44 tgg acc tgg gca ctg tgg atg ctc ccc tca ctc tgc aaa ttc agc ctg 224
45 Trp Thr Trp Ala Leu Trp Met Leu Pro Ser Leu Cys Lys Phe Ser Leu
46 5 10 15
48 gca gct ctg cca gct aag cct gag aac att tcc tgt gtc tac tac tat 272
49 Ala Ala Leu Pro Ala Lys Pro Glu Asn Ile Ser Cys Val Tyr Tyr Tyr
50 20 25 30
52 agg aaa aat tta acc tgc act tgg agt cca gga aag gaa acc agt tat 320
53 Arg Lys Asn Leu Thr Cys Thr Trp Ser Pro Gly Lys Glu Thr Ser Tyr
54 35 40 45 50
56 acc cag tac aca gtt aag aga act tac gct ttt gga gaa aaa cat gat 368
57 Thr Gln Tyr Thr Val Lys Arg Thr Tyr Ala Phe Gly Glu Lys His Asp
58 55 60 65
60 aat tgt aca acc aat agt tct aca agt gaa aat cgt gct tcg tgc tct 416
61 Asn Cys Thr Thr Asn Ser Ser Thr Ser Glu Asn Arg Ala Ser Cys Ser
62 70 75 80
64 ttt ttc ctt cca aga ata acg atc cca gat aat tat acc att gag gtg 464

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/892,949

DATE: 07/18/2001

TIME: 10:30:46

Input Set : A:\00-42.SEQ.txt

Output Set: N:\CRF3\07182001\I892949.raw

65	Phe	Phe	Leu	Pro	Arg	Ile	Thr	Ile	Pro	Asp	Asn	Tyr	Thr	Ile	Glu	Val	
66			85					90					95				
68	gaa	gct	gaa	aat	gga	gat	ggt	gta	att	aaa	tct	cat	atg	aca	tac	tgg	512
69	Glu	Ala	Glu	Asn	Gly	Asp	Gly	Val	Ile	Lys	Ser	His	Met	Thr	Tyr	Trp	
70		100					105					110					
72	aga	tta	gag	aac	ata	gcg	aaa	act	gaa	cca	cct	aag	att	ttc	cgt	gtg	560
73	Arg	Leu	Glu	Asn	Ile	Ala	Lys	Thr	Glu	Pro	Pro	Lys	Ile	Phe	Arg	Val	
74		115				120					125					130	
76	aaa	cca	gtt	ttg	ggc	atc	aaa	cga	atg	att	caa	att	gaa	tgg	ata	aag	608
77	Lys	Pro	Val	Leu	Gly	Ile	Lys	Arg	Met	Ile	Gln	Ile	Glu	Trp	Ile	Lys	
78				135						140					145		
80	cct	gag	ttg	gcg	cct	gtt	tca	tct	gat	tta	aaa	tac	aca	ctt	cga	ttc	656
81	Pro	Glu	Leu	Ala	Pro	Val	Ser	Ser	Asp	Leu	Lys	Tyr	Thr	Leu	Arg	Phe	
82				150					155					160			
84	agg	aca	gtc	aac	agt	acc	agc	tgg	atg	gaa	gtc	aac	ttc	gct	aag	aac	704
85	Arg	Thr	Val	Asn	Ser	Thr	Ser	Trp	Met	Glu	Val	Asn	Phe	Ala	Lys	Asn	
86			165					170					175				
88	cgt	aag	gat	aaa	aac	caa	acg	tac	aac	ctc	acg	ggg	ctg	cag	cct	ttt	752
89	Arg	Lys	Asp	Lys	Asn	Gln	Thr	Tyr	Asn	Leu	Thr	Gly	Leu	Gln	Pro	Phe	
90		180				185					190						
92	aca	gaa	tat	gtc	ata	gct	ctg	cga	tgt	gcg	gtc	aag	gag	tca	aag	ttc	800
93	Thr	Glu	Tyr	Val	Ile	Ala	Leu	Arg	Cys	Ala	Val	Lys	Glu	Ser	Lys	Phe	
94	195				200					205					210		
96	tgg	agt	gac	tgg	agc	caa	gaa	aaa	atg	gga	atg	act	gag	gaa	gaa	gct	848
97	Trp	Ser	Asp	Trp	Ser	Gln	Glu	Lys	Met	Gly	Met	Thr	Glu	Glu	Glu	Ala	
98				215					220					225			
100	cca	tgt	ggc	ctg	gaa	ctg	tgg	aga	gtc	ctg	aaa	cca	gct	gag	gcg	gat	896
101	Pro	Cys	Gly	Leu	Glu	Leu	Trp	Arg	Val	Leu	Lys	Pro	Ala	Glu	Ala	Asp	
102			230						235				240				
104	gga	aga	agg	cca	gtg	cgg	ttg	tta	tgg	aag	aag	gca	aga	gga	gcc	cca	944
105	Gly	Arg	Arg	Pro	Val	Arg	Leu	Leu	Trp	Lys	Lys	Ala	Arg	Gly	Ala	Pro	
106			245				250					255					
108	gtc	cta	gag	aaa	aca	ctt	ggc	tac	aac	ata	tgg	tac	tat	cca	gaa	agc	992
109	Val	Leu	Glu	Lys	Thr	Leu	Gly	Tyr	Asn	Ile	Trp	Tyr	Tyr	Pro	Glu	Ser	
110		260				265					270						
112	aac	act	aac	ctc	aca	gaa	aca	atg	aac	act	act	aac	cag	cag	ctt	gaa	1040
113	Asn	Thr	Asn	Leu	Thr	Glu	Thr	Met	Asn	Thr	Thr	Asn	Gln	Gln	Leu	Glu	
114	275				280					285					290		
116	ctg	cat	ctg	gga	ggc	gag	agc	ttt	tgg	gtg	tct	atg	att	tct	tat	aat	1088
117	Leu	His	Leu	Gly	Gly	Glu	Ser	Phe	Trp	Val	Ser	Met	Ile	Ser	Tyr	Asn	
118			295						300					305			
120	tct	ctt	ggg	aag	tct	cca	gtg	gcc	acc	ctg	agg	att	cca	gct	att	caa	1136
121	Ser	Leu	Gly	Lys	Ser	Pro	Val	Ala	Thr	Leu	Arg	Ile	Pro	Ala	Ile	Gln	
122			310					315					320				
124	gaa	aaa	tca	ttt	cag	tgc	att	gag	gtc	atg	cag	gcc	tgc	gtt	gct	gag	1184
125	Glu	Lys	Ser	Phe	Gln	Cys	Ile	Glu	Val	Met	Gln	Ala	Cys	Val	Ala	Glu	
126			325				330					335					
128	gac	cag	cta	gtg	gtg	aag	tgg	caa	agc	tct	gct	cta	gac	gtg	aac	act	1232
131	Asp	Gln	Leu	Val	Val	Lys	Trp	Gln	Ser	Ser	Ala	Leu	Asp	Val	Asn	Thr	

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DATE: 07/18/2001

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Input Set : A:\00-42.SEQ.txt

Output Set: N:\CRF3\07182001\I892949.raw

132	340	345	350		
134	tgg atg att gaa tgg ttt ccg gat gtg gac tca gag ccc acc acc ctt	1280			
135	Trp Met Ile Glu Trp Phe Pro Asp Val Asp Ser Glu Pro Thr Thr Leu				
136	355	360	365	370	
138	tcc tgg gaa tct gtg tct cag gcc acg aac tgg acg atc cag caa gat	1328			
139	Ser Trp Glu Ser Val Ser Gln Ala Thr Asn Trp Thr Ile Gln Gln Asp				
140		375	380	385	
142	aaa tta aaa cct ttc tgg tgc tat aac atc tct gtg tat cca atg ttg	1376			
143	Lys Leu Lys Pro Phe Trp Cys Tyr Asn Ile Ser Val Tyr Pro Met Leu				
144		390	395	400	
146	cat gac aaa gtt ggc gag cca tat tcc atc cag gct tat gcc aaa gaa	1424			
147	His Asp Lys Val Gly Glu Pro Tyr Ser Ile Gln Ala Tyr Ala Lys Glu				
148		405	410	415	
150	ggc gtt cca tca gaa ggt cct gag acc aag gtg gag aac att ggc gtg	1472			
151	Gly Val Pro Ser Glu Gly Pro Glu Thr Lys Val Glu Asn Ile Gly Val				
152		420	425	430	
154	aag acg gtc acg atc aca tgg aaa gag att ccc aag agt gag aga aag	1520			
155	Lys Thr Val Thr Ile Thr Trp Lys Glu Ile Pro Lys Ser Glu Arg Lys				
156	435	440	445	450	
158	ggt atc atc tgc aac tac acc atc ttt tac caa gct gaa ggt gga aaa	1568			
159	Gly Ile Ile Cys Asn Tyr Thr Ile Phe Tyr Gln Ala Glu Gly Gly Lys				
160		455	460	465	
162	gga ttc tcc aag aca gtc aat tcc agc atc ttg cag tac ggc ctg gag	1616			
163	Gly Phe Ser Lys Thr Val Asn Ser Ser Ile Leu Gln Tyr Gly Leu Glu				
164		470	475	480	
166	tcc ctg aaa cga aag acc tct tac att gtt cag gtc atg gcc agc acc	1664			
167	Ser Leu Lys Arg Lys Thr Ser Tyr Ile Val Gln Val Met Ala Ser Thr				
168		485	490	495	
170	agt gct ggg gga acc aac ggg acc agc ata aat ttc aag aca ttg tca	1712			
171	Ser Ala Gly Gly Thr Asn Gly Thr Ser Ile Asn Phe Lys Thr Leu Ser				
172		500	505	510	
174	ttc agt gtc ttt gag att atc ctc ata act tct ctg att ggt gga ggc	1760			
175	Phe Ser Val Phe Glu Ile Ile Leu Ile Thr Ser Leu Ile Gly Gly Gly				
176	515	520	525	530	
178	ctt ctt att ctc att atc ctg aca gtg gca tat ggt ctc aaa aaa ccc	1808			
179	Leu Leu Ile Leu Ile Ile Leu Thr Val Ala Tyr Gly Leu Lys Lys Pro				
180		535	540	545	
182	aac aaa ttg act cat ctg tgt tgg ccc acc gtt ccc aac cct gct gaa	1856			
183	Asn Lys Leu Thr His Leu Cys Trp Pro Thr Val Pro Asn Pro Ala Glu				
184		550	555	560	
186	agt agt ata gcc aca tgg cat gga gat ttc aag gat aag cta aac	1904			
187	Ser Ser Ile Ala Thr Trp His Gly Asp Asp Phe Lys Asp Lys Leu Asn				
188		565	570	575	
190	ctg aag gag tct gat gac tct gtg aac aca gaa gac agg atc tta aaa	1952			
191	Leu Lys Glu Ser Asp Asp Ser Val Asn Thr Glu Asp Arg Ile Leu Lys				
192		580	585	590	
194	cca tgt tcc acc ccc agt gac aag ttg gtg att gac aag ttg gtg gtg	2000			
195	Pro Cys Ser Thr Pro Ser Asp Lys Leu Val Ile Asp Lys Leu Val Val				
196	595	600	605	610	

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Input Set : A:\00-42.SEQ.txt

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```

198 aac ttt ggg aat gtt ctg caa gaa att ttc aca gat gaa gcc aga acg      2048
199 Asn Phe Gly Asn Val Leu Gln Glu Ile Phe Thr Asp Glu Ala Arg Thr
200                               615                               620                               625
202 ggt cag gaa aac aat tta gga ggg gaa aag aat ggg tat gtg acc tgc      2096
203 Gly Gln Glu Asn Asn Leu Gly Gly Glu Lys Asn Gly Tyr Val Thr Cys
204                               630                               635                               640
206 ccc ttc agg cct gat tgt ccc ctg ggg aaa agt ttt gag gag ctc cca      2144
207 Pro Phe Arg Pro Asp Cys Pro Leu Gly Lys Ser Phe Glu Glu Leu Pro
208                               645                               650                               655
210 gtt tca cct gag att ccg ccc aga aaa tcc caa tac cta cgt tcg agg      2192
211 Val Ser Pro Glu Ile Pro Pro Arg Lys Ser Gln Tyr Leu Arg Ser Arg
212                               660                               665                               670
214 atg cca gag ggg acc cgc cca gaa gcc aaa gag cag ctt ctc ttt tct      2240
217 Met Pro Glu Gly Thr Arg Pro Glu Ala Lys Glu Gln Leu Leu Phe Ser
218                               675                               680                               685                               690
220 ggt caa agt tta gta cca gat cat ctg tgt gag gaa gga gcc cca aat      2288
221 Gly Gln Ser Leu Val Pro Asp His Leu Cys Glu Glu Gly Ala Pro Asn
222                               695                               700                               705
224 cca tat ttg aaa aat tca gtg aca gcc agg gaa ttt ctt gtg tct gaa      2336
225 Pro Tyr Leu Lys Asn Ser Val Thr Ala Arg Glu Phe Leu Val Ser Glu
226                               710                               715                               720
228 aaa ctt cca gag cac acc aag gga gaa gtc taaatgcgac catagcatga      2386
229 Lys Leu Pro Glu His Thr Lys Gly Glu Val
230                               725                               730
232 gaccctcggg gcctca      2402
234 <210> SEQ ID NO: 2
235 <211> LENGTH: 732
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 2
240 Met Met Trp Thr Trp Ala Leu Trp Met Leu Pro Ser Leu Cys Lys Phe
241 1 5 10 15
242 Ser Leu Ala Ala Leu Pro Ala Lys Pro Glu Asn Ile Ser Cys Val Tyr
243 20 25 30
244 Tyr Tyr Arg Lys Asn Leu Thr Cys Thr Trp Ser Pro Gly Lys Glu Thr
245 35 40 45
246 Ser Tyr Thr Gln Tyr Thr Val Lys Arg Thr Tyr Ala Phe Gly Glu Lys
247 50 55 60
248 His Asp Asn Cys Thr Thr Asn Ser Ser Thr Ser Glu Asn Arg Ala Ser
249 65 70 75 80
250 Cys Ser Phe Phe Leu Pro Arg Ile Thr Ile Pro Asp Asn Tyr Thr Ile
251 85 90 95
252 Glu Val Glu Ala Glu Asn Gly Asp Gly Val Ile Lys Ser His Met Thr
253 100 105 110
254 Tyr Trp Arg Leu Glu Asn Ile Ala Lys Thr Glu Pro Pro Lys Ile Phe
255 115 120 125
256 Arg Val Lys Pro Val Leu Gly Ile Lys Arg Met Ile Gln Ile Glu Trp
257 130 135 140
260 Ile Lys Pro Glu Leu Ala Pro Val Ser Ser Asp Leu Lys Tyr Thr Leu

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Input Set : A:\00-42.SEQ.txt

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261	145				150				155			160				
262	Arg	Phe	Arg	Thr	Val	Asn	Ser	Thr	Ser	Trp	Met	Glu	Val	Asn	Phe	Ala
263					165				170						175	
264	Lys	Asn	Arg	Lys	Asp	Lys	Asn	Gln	Thr	Tyr	Asn	Leu	Thr	Gly	Leu	Gln
265				180					185					190		
266	Pro	Phe	Thr	Glu	Tyr	Val	Ile	Ala	Leu	Arg	Cys	Ala	Val	Lys	Glu	Ser
267			195					200					205			
268	Lys	Phe	Trp	Ser	Asp	Trp	Ser	Gln	Glu	Lys	Met	Gly	Met	Thr	Glu	Glu
269		210				215						220				
270	Glu	Ala	Pro	Cys	Gly	Leu	Glu	Leu	Trp	Arg	Val	Leu	Lys	Pro	Ala	Glu
271	225				230						235					240
272	Ala	Asp	Gly	Arg	Arg	Pro	Val	Arg	Leu	Leu	Trp	Lys	Lys	Ala	Arg	Gly
273				245						250						255
274	Ala	Pro	Val	Leu	Glu	Lys	Thr	Leu	Gly	Tyr	Asn	Ile	Trp	Tyr	Tyr	Pro
275			260						265					270		
276	Glu	Ser	Asn	Thr	Asn	Leu	Thr	Glu	Thr	Met	Asn	Thr	Thr	Asn	Gln	Gln
277			275					280					285			
278	Leu	Glu	Leu	His	Leu	Gly	Gly	Glu	Ser	Phe	Trp	Val	Ser	Met	Ile	Ser
279		290				295						300				
280	Tyr	Asn	Ser	Leu	Gly	Lys	Ser	Pro	Val	Ala	Thr	Leu	Arg	Ile	Pro	Ala
281	305				310						315					320
282	Ile	Gln	Glu	Lys	Ser	Phe	Gln	Cys	Ile	Glu	Val	Met	Gln	Ala	Cys	Val
283				325						330					335	
284	Ala	Glu	Asp	Gln	Leu	Val	Val	Lys	Trp	Gln	Ser	Ser	Ala	Leu	Asp	Val
285			340						345					350		
286	Asn	Thr	Trp	Met	Ile	Glu	Trp	Phe	Pro	Asp	Val	Asp	Ser	Glu	Pro	Thr
287		355						360					365			
288	Thr	Leu	Ser	Trp	Glu	Ser	Val	Ser	Gln	Ala	Thr	Asn	Trp	Thr	Ile	Gln
289		370				375						380				
290	Gln	Asp	Lys	Leu	Lys	Pro	Phe	Trp	Cys	Tyr	Asn	Ile	Ser	Val	Tyr	Pro
291	385				390						395					400
292	Met	Leu	His	Asp	Lys	Val	Gly	Glu	Pro	Tyr	Ser	Ile	Gln	Ala	Tyr	Ala
293				405						410					415	
294	Lys	Glu	Gly	Val	Pro	Ser	Glu	Gly	Pro	Glu	Thr	Lys	Val	Glu	Asn	Ile
295			420						425					430		
296	Gly	Val	Lys	Thr	Val	Thr	Ile	Thr	Trp	Lys	Glu	Ile	Pro	Lys	Ser	Glu
297		435						440					445			
298	Arg	Lys	Gly	Ile	Ile	Cys	Asn	Tyr	Thr	Ile	Phe	Tyr	Gln	Ala	Glu	Gly
299		450				455						460				
300	Gly	Lys	Gly	Phe	Ser	Lys	Thr	Val	Asn	Ser	Ser	Ile	Leu	Gln	Tyr	Gly
301	465				470						475					480
302	Leu	Glu	Ser	Leu	Lys	Arg	Lys	Thr	Ser	Tyr	Ile	Val	Gln	Val	Met	Ala
303				485						490					495	
304	Ser	Thr	Ser	Ala	Gly	Gly	Thr	Asn	Gly	Thr	Ser	Ile	Asn	Phe	Lys	Thr
305			500						505					510		
306	Leu	Ser	Phe	Ser	Val	Phe	Glu	Ile	Ile	Leu	Ile	Thr	Ser	Leu	Ile	Gly
307		515					520					525				
308	Gly	Gly	Leu	Leu	Ile	Leu	Ile	Ile	Leu	Thr	Val	Ala	Tyr	Gly	Leu	Lys
309		530				535						540				

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/892,949

DATE: 07/18/2001

TIME: 10:30:47

Input Set : A:\00-42.SEQ.txt

Output Set: N:\CRF3\07182001\I892949.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:1576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/892,949

DATE: 07/18/2001

TIME: 10:30:47

Input Set : A:\00-42.SEQ.txt

Output Set: N:\CRF3\07182001\I892949.raw

L:1584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/892,949

DATE: 07/18/2001

TIME: 10:30:47

Input Set : A:\00-42.SEQ.txt

Output Set: N:\CRF3\07182001\I892949.raw

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L:1990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:2840 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:81
L:2851 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:82
L:2862 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:83
L:2874 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:84
L:2885 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:85
L:2896 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:86
L:2907 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:87